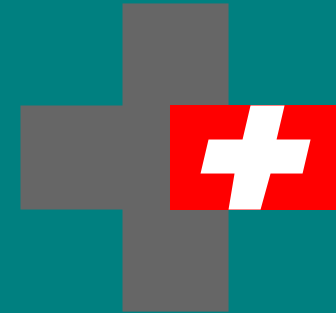




LUFTWAFFE  
FORCES AERIENNES  
FORZE AEREE  
SWISS AIR FORCE



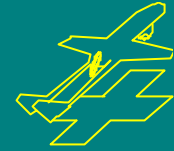
**ADS 95 RANGER Flight - Campaign**  
**National Exhibition EXPO 02**

**EURO UVS, Paris, June 14, 2002**

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE <b>02 SEP 2003</b>		2. REPORT TYPE <b>N/A</b>		3. DATES COVERED <b>-</b>	
4. TITLE AND SUBTITLE <b>ADS 95 RANGER Flight - Campaign National Exhibition EXPO 02</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>Swiss Air Force UAV Switzerland</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release, distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>See also ADM001676, UAV 2002 conference &amp; Exhibition., The original document contains color images.</b>					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>SAR</b>	18. NUMBER OF PAGES <b>9</b>	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			

# Agenda

---



- Mission: EXPO 02
- Geographical Situation
- Airspace Structure
- CTR Airbase Payerne
- RANGER Live Image Transfer



**EXPO Area**

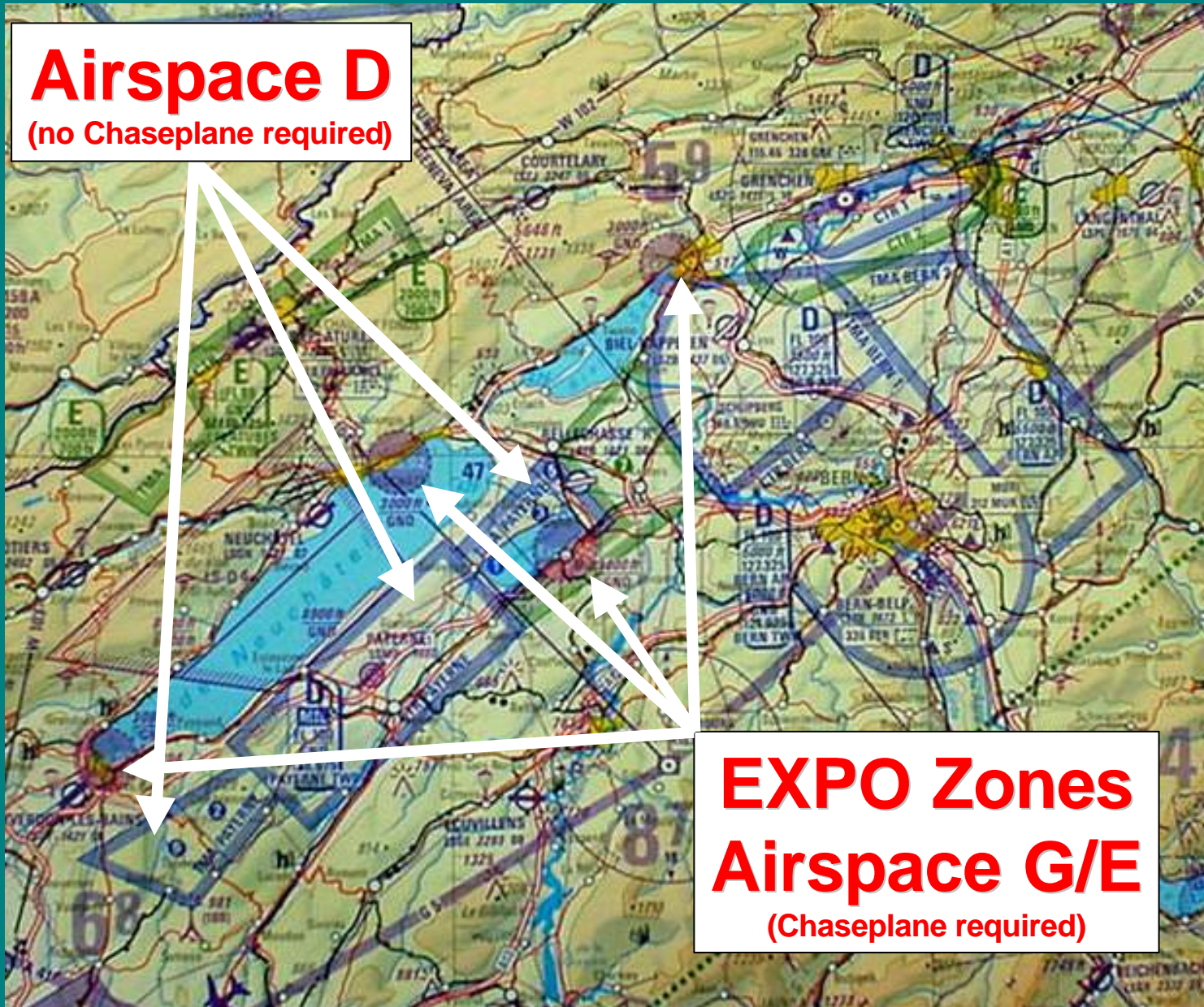




# Swiss Air Force



**Airspace D**  
(no Chaseplane required)



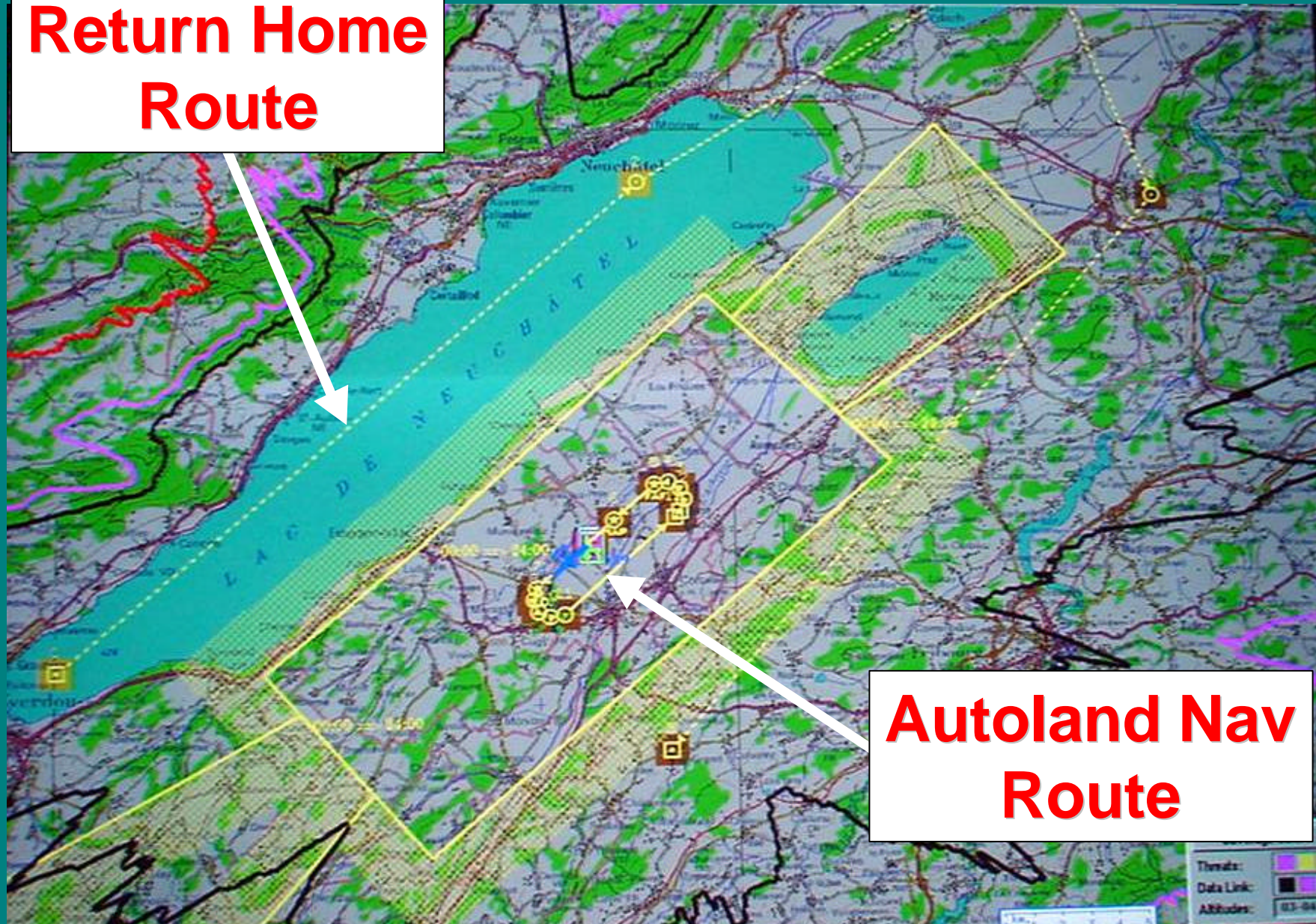
**EXPO Zones  
Airspace G/E**  
(Chaseplane required)



Swiss Air Force



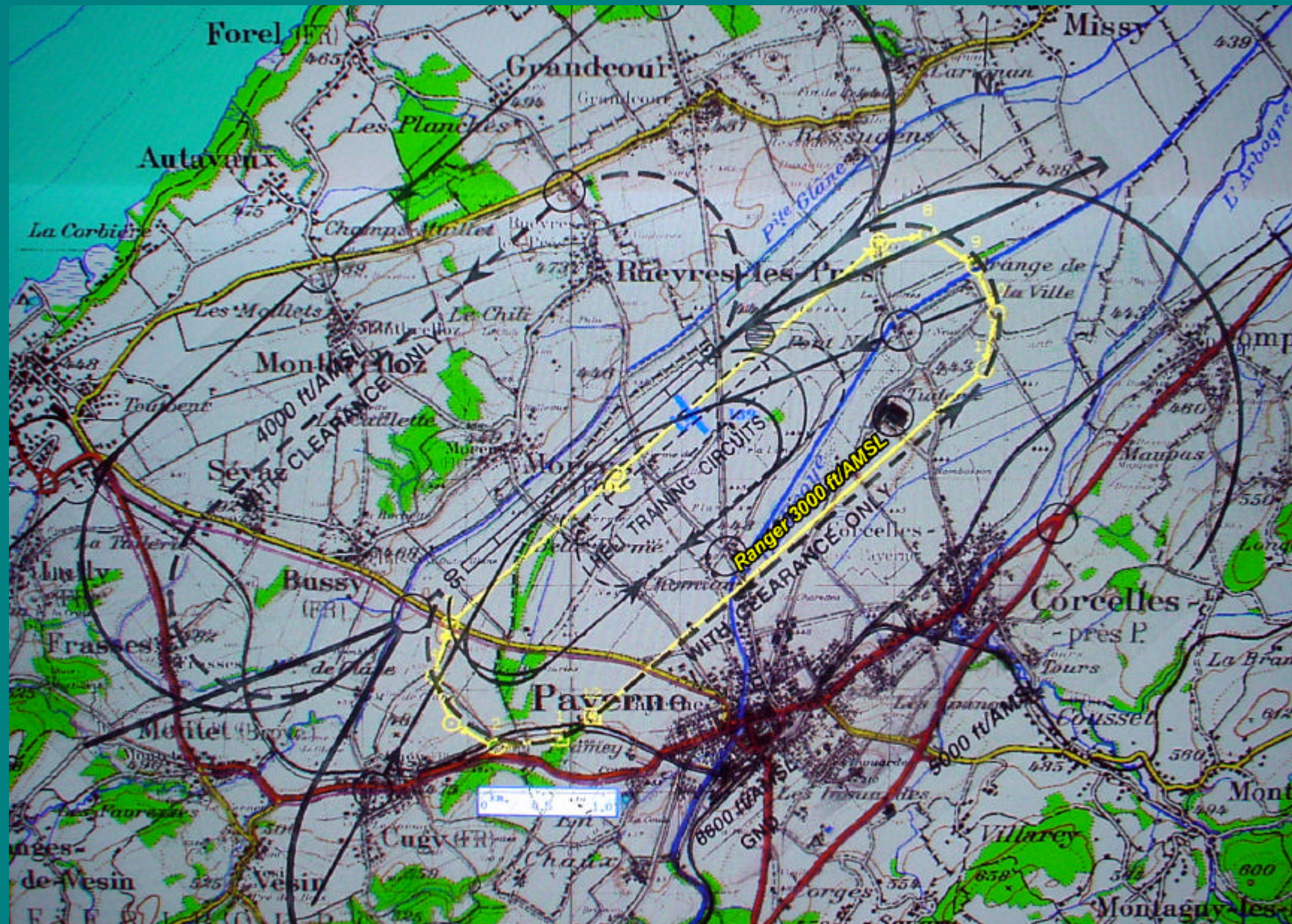
**Return Home  
Route**



**Autoland Nav  
Route**

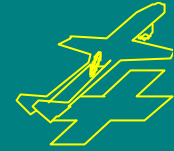


# Swiss Air Force

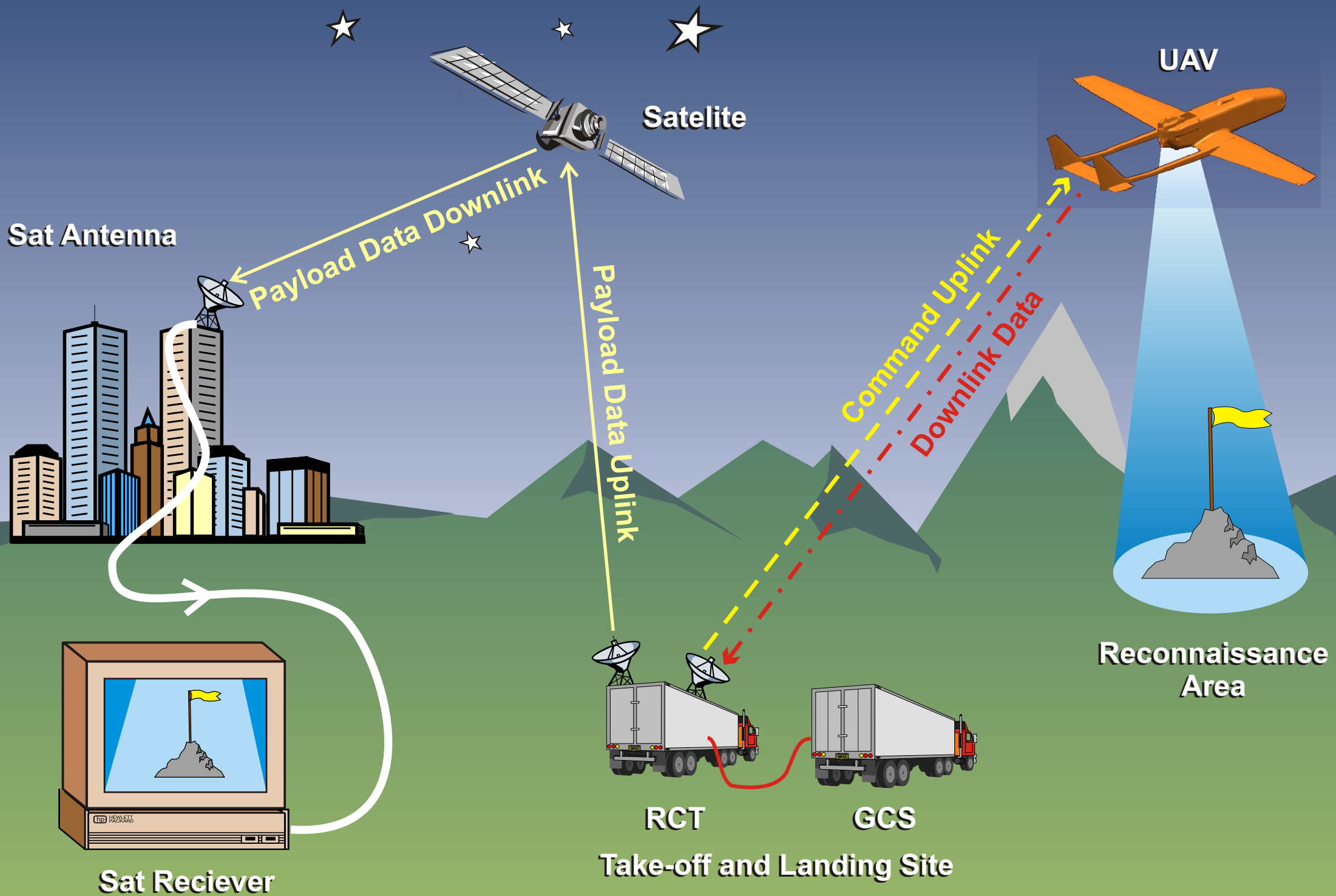




# Digital Image Transfer







**Video transmission: technical details**

<b>Satellite:</b>	<b>France Telecom 2D</b>
<b>Orbital position:</b>	<b>8 Grad West</b>
<b>Transponder:</b>	<b>10</b>
<b>Uplink frequency:</b>	<b>14431MHZ horizontal</b>
<b>Downlink frequency:</b>	<b>11631MHZ vertical</b>
<b>Transmission:</b>	<b>MPEG 4:2:0, DVB</b>

